

**DR11-C
general device
interface
engineering drawings**



DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

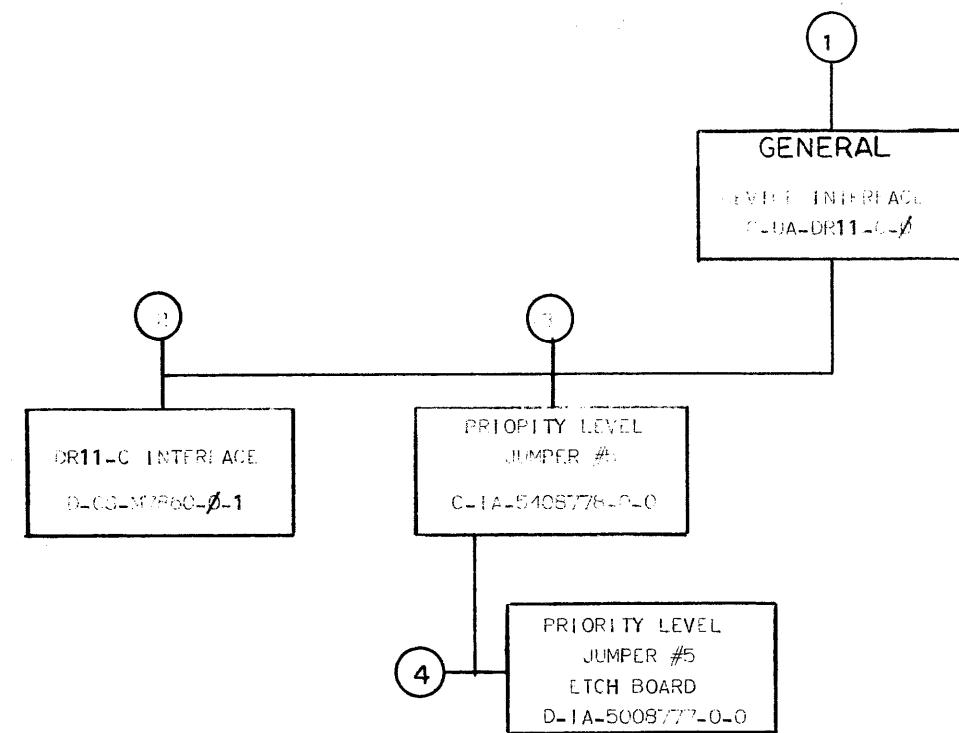
SEQUENCE

MANUFACTURER'S
GENERAL INFORMATION
INTERFACe
OR114C INTERFACe
PRIORITY LEVEL JUMPER #
CIRCUIT SCHEMATIC
I/O CABLE
SOFTWARE LIST
ACCESSORY LIST

D-CS-MT650-~~0~~-0-1
C-1A-~~5~~40N745-0-0
B-CS-~~5~~40H778-0-1
D-UA-BC~~0~~R-~~0~~-0
A-SL-DR11-C-2
A-AL-DR11-C-3

SEQUENCE

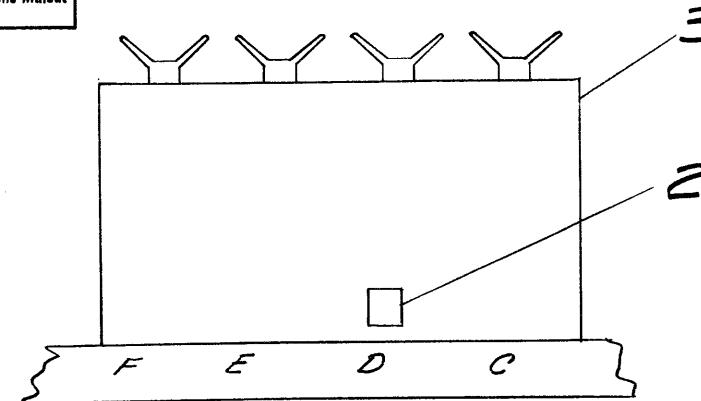
THIS IS PRINT SET



TITLE	SHEET	SIZE	CODE	NUMBER	REV
GENERAL	2 OF 3	B	DD	DR11-C	

CUSTOMER PRINT SET				ELECTRICAL						CUSTOMER PRINT SET				MECHANICAL					
DR11-C	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION		OPTION NO.	DR11-C	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION		OPTION NO.		
X			1. C-UA-DR11-C-Ø	*	1	GENERAL DEVICE INTERFACE						1. C-UA-DR11-C-Ø	*	1	GENERAL DEVICE INTERFACE				
X			D-UA-BCØ8R-Ø-Ø	#	1	I/O CABLE						D-UA-BCØ8R-Ø-Ø	#	1	I/O CABLE				
			A-SP-DRII-C-1	*	7	ENGINEERING SPECIFICATION													
X			A-SL-DRII-C-2	*	1	SOFTWARE LIST													
X			A-AL-DRII-C-3	#	1	ACCESSORY LIST													
X			2. D-CS-M786Ø-Ø-1	*	4	DR11-C INTERFACE						2. D-CS-M786Ø-Ø-1	*	1	DR11-C INTERFACE				
			K-CO-M786Ø-Ø-4	#	1	X-Y COORDINATE HOLE LOC.						K-CO-M786Ø-Ø-4	#	1	X-Y COORDINATE HOLE LOC.				
			D-AH-M786Ø-Ø-5	#	1	ASSY/DRILLING HOLE LAYOUT						D-AH-M786Ø-Ø-5	#	1	ASSY/DRILLING HOLE LAYOUT				
			B-MH-M786Ø-Ø-6	#	1	MODULE ECO HISTORY						B-MH-M786Ø-Ø-6	#	1	MODULE ECO HISTORY				
X			3. C-IA-5408778-0-0	*	1	PRIORITY LEVEL JUMPER #5						3. C-IA-5408778-0-0	*	1	PRIORITY LEVEL JUMPER #5				
X			B-CS-5408778-0-1	#	1	CIRCUIT SCHEMATIC						K-CO-5408778-0-4	#	1	X-Y COORDINATE HOLE LOC.				
			K-CO-5408778-0-4	#	1	X-Y COORDINATE HOLE LOC.						B-MH-5408778-0-6	#	1	MODULE ECO HISTORY				
			B-MH-5408778-0-6	#	1	MODULE ECO HISTORY													
			4. C-AH-5408778-0-5	#	1	ASSY/DRILLING HOLE LAYOUT						4. D-IA-5008777-0-0	#	1	PRIORITY LEVEL JUMPER #5 ETCH BOARD				
												C-AH-5408778-0-5	#	1	ASSY/DRILLING HOLE LAYOUT				

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NOTES:

1. MAY BE M920 OR BC11A.
2. MAY BE M929, M930 OR BC11A
3. PART OF POWER HARNESS IN DRII MOUNTING BOX. (NOT SUPPLIED WITH THE DRIIC OPTION.)

D

D

C

C

B

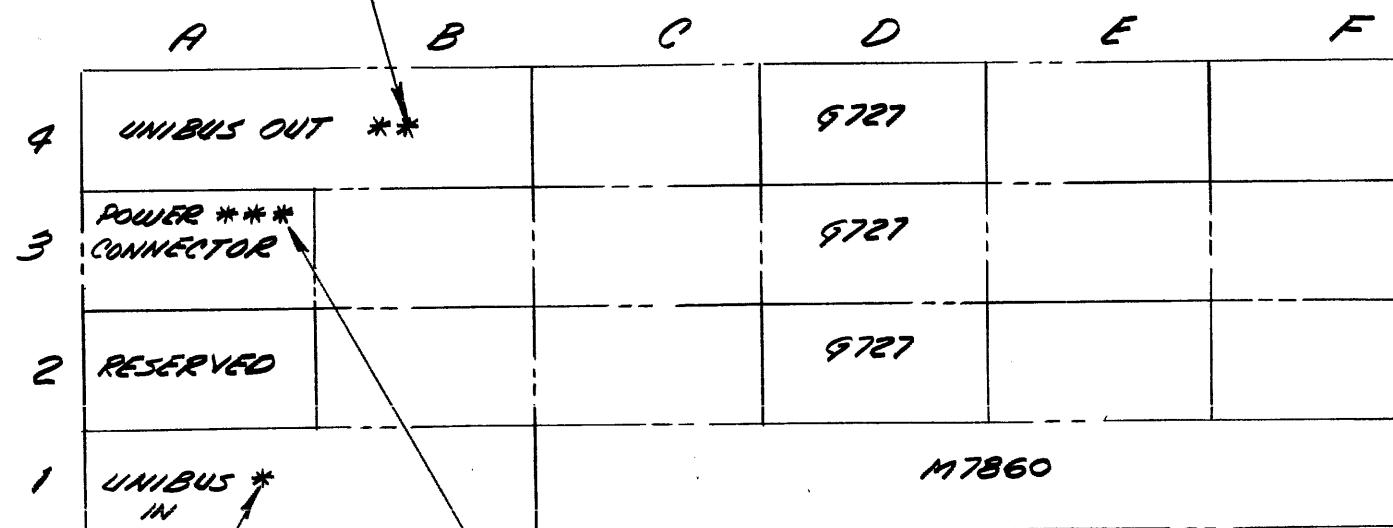
REV.

A

B

SEE NOTE #1

SEE NOTE #3



DDII-A REF

FIRST USED ON OPTION/MOD
PDP 11/20

UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED

DIMENSION IN INCHES

TOLERANCES

DECIMALS FRACTIONS ANGLES

 $\pm .005$ $\pm 1/64$ $\pm 0^{\circ}30'$ FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP
CORNERS

MATERIAL

FIRST USED ON

B-DO-DRII-C

FINISH

SCALE

NONE

SHEET

1 OF 1

1	DRII-C INTERFACE	D-3-197860-6-1	3
1	PRIORITY JUMPER LEVEL "5"	CIA-59087A8-0-0	2
1	I/O CABLE	C-4A-8C98R-61-0	1

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			

REVIS.	DATE	5-23-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
CHANGE NO.	DATE	6/19/72	

CHK'D	DATE	5-23-72	TITLE
R. Cook	DATE	6/19/72	

ENG.	DATE	1	GENERAL DEVICE INTERFACE
PROJ. ENG.	DATE	6-10-72	

PROD.	DATE	6/12/72	SIZE CODE C U A	NUMBER DRII-C-Ø	REV. G
Maintained	DATE	6/12/72			

REVISIONS	CHANGE NO.	REV.
CHK		

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PARTS LIST

ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1		ETCHED CIRCUIT BOARD	5009884	1
2	K-CO-M7860-0-4	X-Y COORDINATE HOLE LOCATION		
3	D-AH-M7860-0-5	ASSY DRILLING HOLE LAYOUT		
4	B-MH-M7860-0-6	MODULE ECO HISTORY		
5		HANDLE, FLIP CHIP MAGENTA	9008337-06	4
6		EYELET, GS-4-7 STIMPSON	9006732	8
7	E17	IC SOCKET	1209838	1
8	C56	CAP .470 MMF 100V 5%	10000024	1
9	C17	CAP .220 PF 100V 5%	10000021	1
10	C52 THRU C55	CAP 6.8 MFP .35V 20 %	10000067	4
11	C1 THRU C16, C18 THRU C51	CAP 0.1UF 100V 20%	1001610	50
12	C57	CAP 330PF 100V 5%	10000023	1
13	D1 THRU D36	DIODE D664	1100114	36
14	R1 THRU R13, R16, R18, R20, R21, R22	RESISTOR 1K, 1/4W, 5%	1300365	18
15	R17	RESISTOR 47Ω 1/4W 5%	130C202	1
16	R19	RESISTOR 390Ω 1/4W 5%	1300309	1
17	R15	RESISTOR 180Ω 1/4W 5%	1301322	1
18	R14	RESISTOR 100Ω 1/4W 5%	1300229	1
19	E25	IC DEC 7437	1910091	1
20	E6EBF14E23E26E27E31E33E36E16	IC DEC 380	1909485 *	11
21	E2E4E10E12E19	IC DEC 8271	1909615	5
22	E3E5E7E9E11E13E15E1BE20E37E41E45E46E1	IC DEC 5881	1909705	14
23	E21	IC DEC 7440	1905579	1
24	E22E24,E44E49	IC DEC 7400	1905575	4
25	E28E38	IC DEC 7402	1909004	2
26	E29,E39	IC DEC 8815	1909713	2
27	E30E35E40	IC DEC 8242A	1909712	3
28	E34	IC DEC 74H00	1909056	1
29	E42	IC DEC 7474	1905547	1
30	E43,E50	IC DEC 7408	1910155	2
31	E47,E48	IC DEC 74H74	1909667	2
32	E51	IC DEC 74H04	1909931	1
33		BERG 40 PIN CONN.	1209941	2

ALLOWABLE SUBSTITUTION LIST

ALLOWABLE SUBSTITUTION LIST			
ORIG. PART NO.	SUBSTITUTION DESCRIPTION	PART NO.	ITEM NO.
1909485	IC 11380	1911113	20

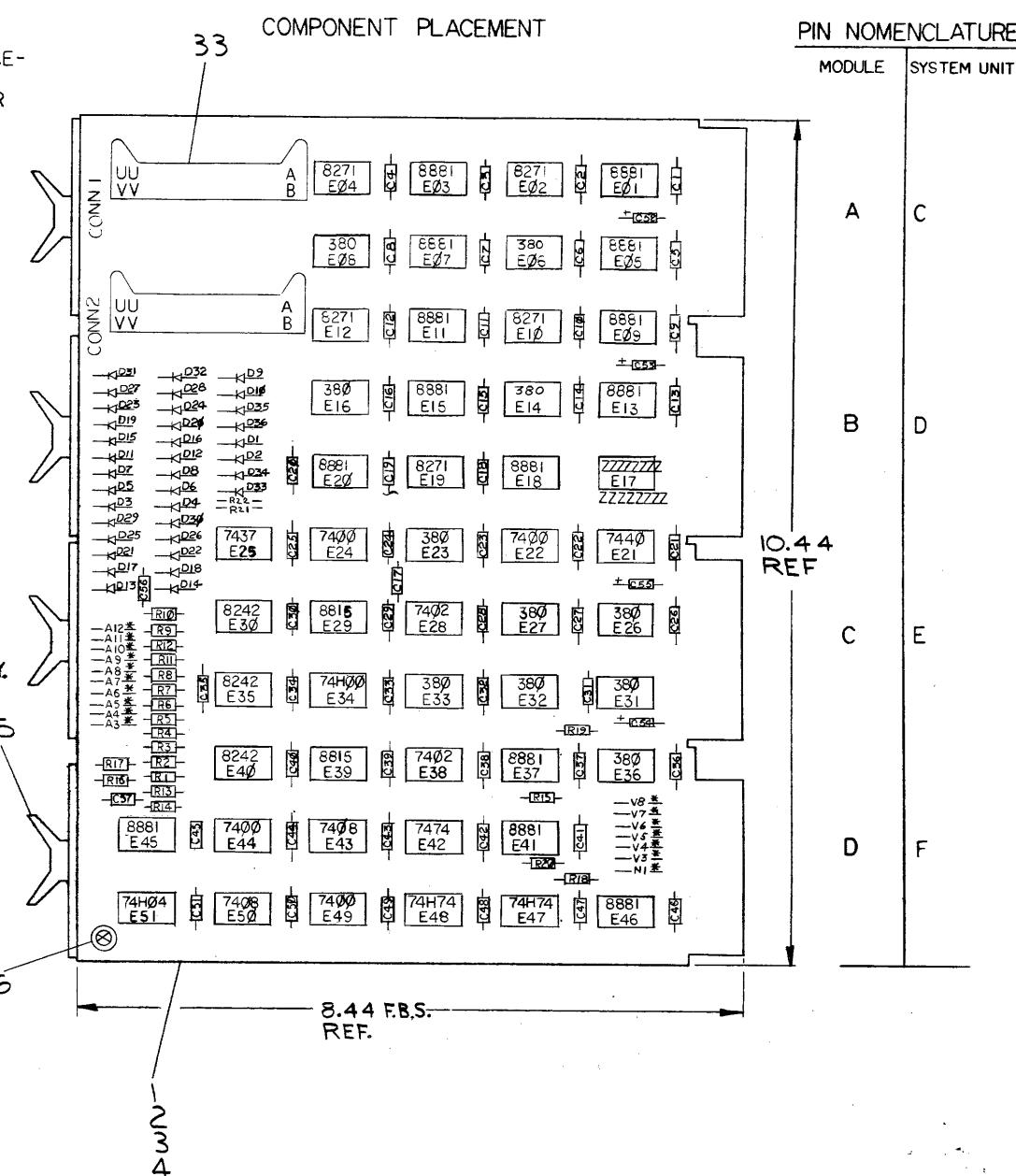
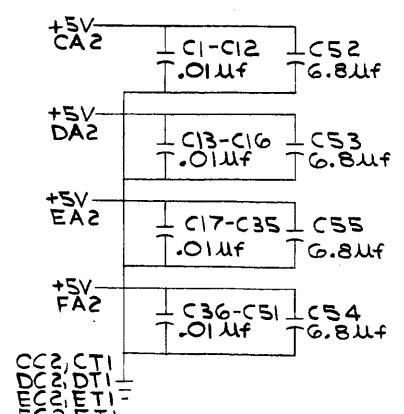
NOTES:

- I. PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE SYSTEM UNIT. MODULE REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE FIRST LETTER, AND CONVERTING THE FIRST LETTER ACCORDING TO THE PIN NOMENCLATURE CHART AT RIGHT.
 2. JUMPERS TO BE USED AT CONNECTIONS A3-A12, N1, AND V3-V8.
 3. ON ITEM NO. 20, ALL 11 CHIPS MUST BE EITHER DEC 380's' OR ITS' SUBSTITUTE 11380 ICS'. COMBINATIONS ARE NOT ALLOWED ON THE SAME OPTION.

*SEE ALLOWABLE SUBSTITUTION LIST & NOTE 3.

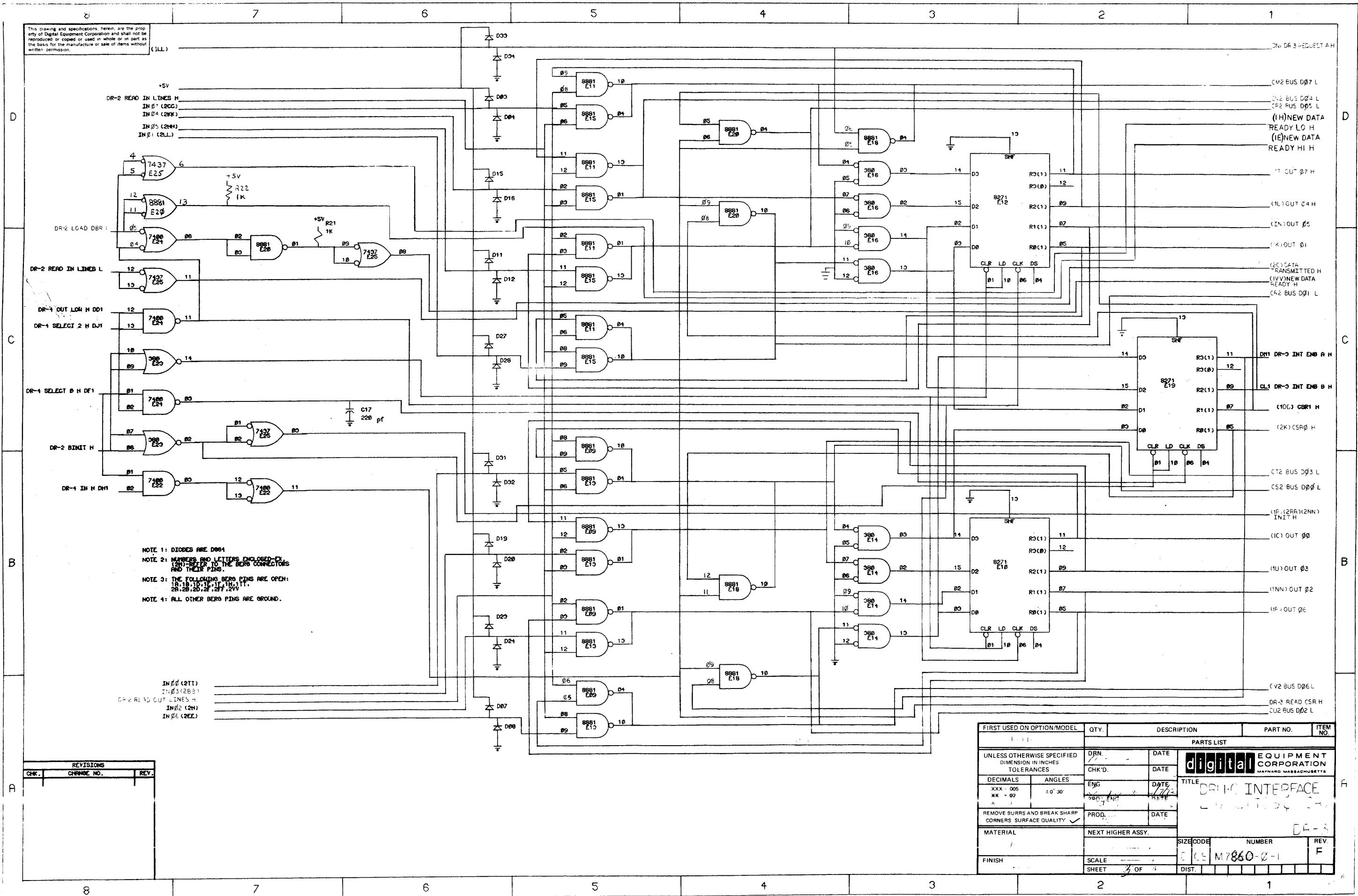
GND AND +5V ARE USUALLY PIN 7 AND PIN 14, RESPECTIVELY.
EXCEPTIONS ARE:

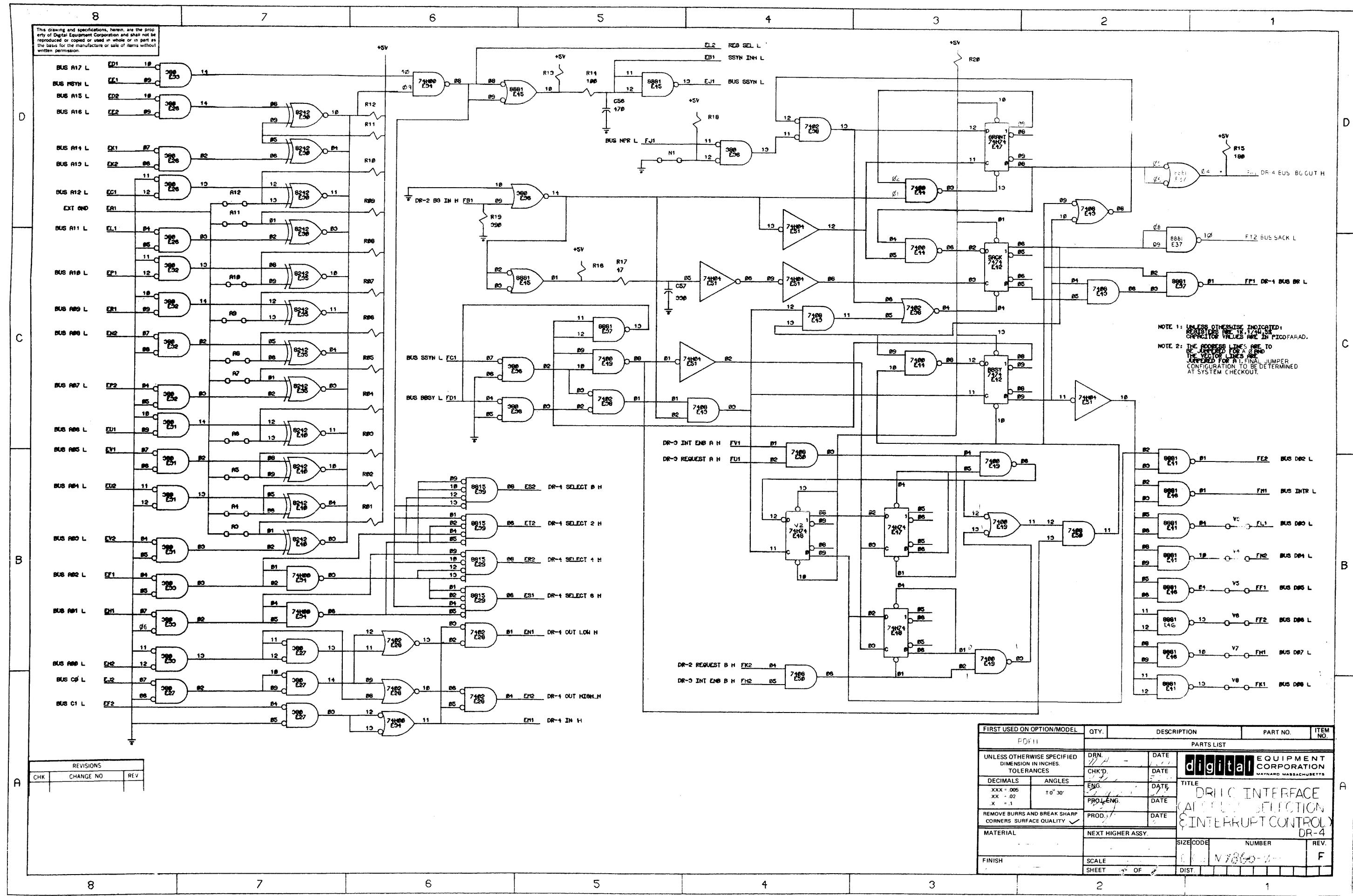
IC_TYPE	GND	+5V
DEC 8271	PIN 8	PIN 16
DEC 380	PIN 1	PIN 8



ETCH BOARD REV		E			
FIRST USED ON OPTION/MODEL PDPII	QTY.	DESCRIPTION	PART NO.	ITEM NO.	
PARTS LIST					
UNLESS OTHERWISE SPECIFIED		DRN. Margaret Dawn Rinne	DATE 2-3-72	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS TITLE	
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES		CHN'D G Engerson	DATE 3-2-72		
TOLERANCES		ENG. Xany London	DATE 3/1/72		
DECIMALS FRACTIONS ARROWS $\pm .005$ $\pm 1/64$ ± 030		PROD. SPN J. Engerson	DATE 3/1/72		
FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS		PROD. SPN J. Engerson	DATE 3/1/72		
MATERIAL	NEXT HIGHER ASSY				
FINISH	SCALE 1/1	SIZE CODE D CS	NUMBER M7860-0-1	REV. F	
	SHEET 1	OF 4	DIST.		

REVISIONS		CHANGE NO	REV
<i>1</i>	<i>2</i>	M7860-00001	C
<i>3</i>	<i>4</i>	M7860-00012	B6672
<i>5</i>	<i>6</i>	P.JANSON	12672
<i>7</i>	<i>8</i>	<i>P.J.</i>	<i>12672</i>
<i>9</i>	<i>10</i>	M7860-00013	D
<i>11</i>	<i>12</i>	<i>M7860-00014</i>	<i>12572</i>
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3

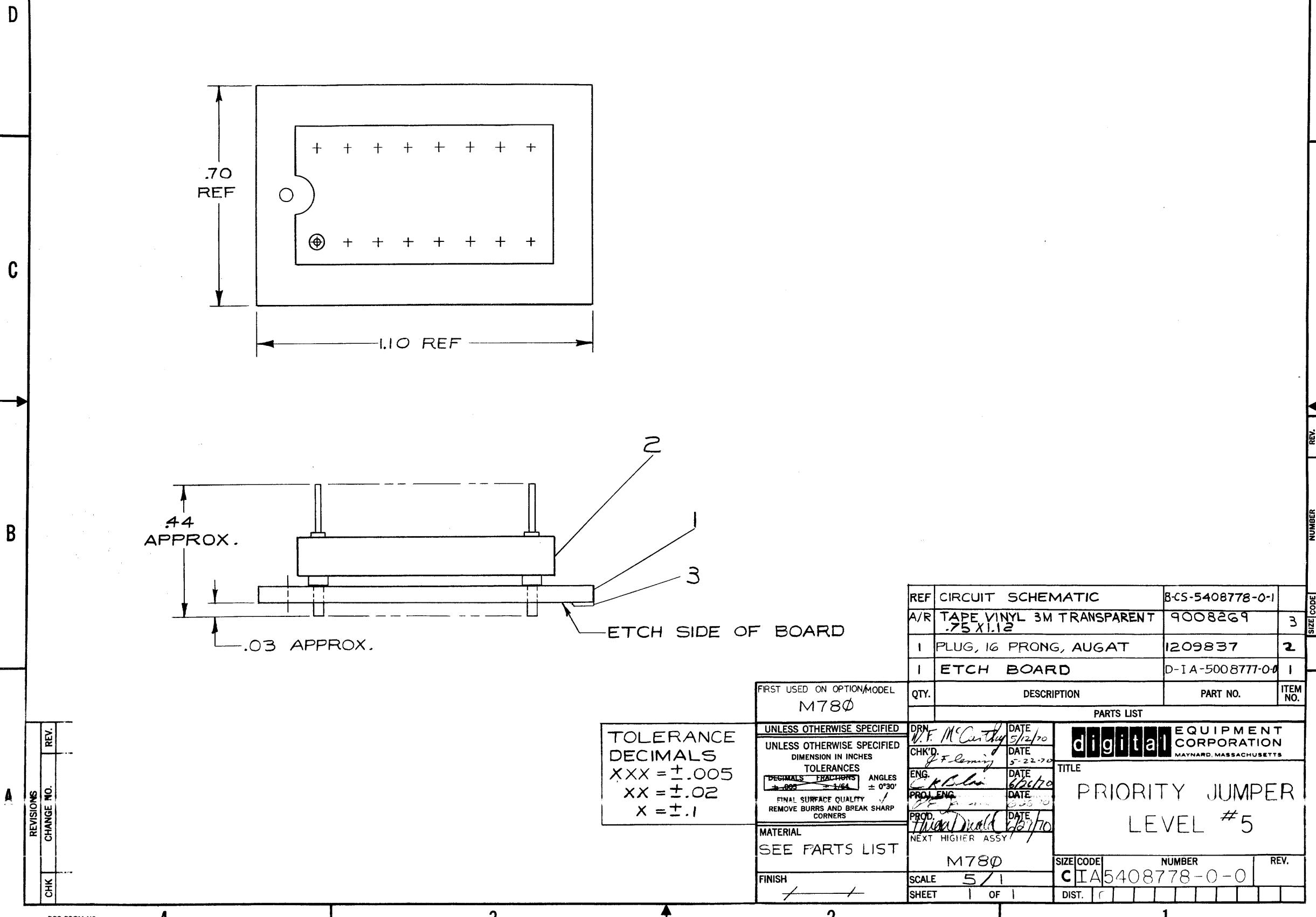
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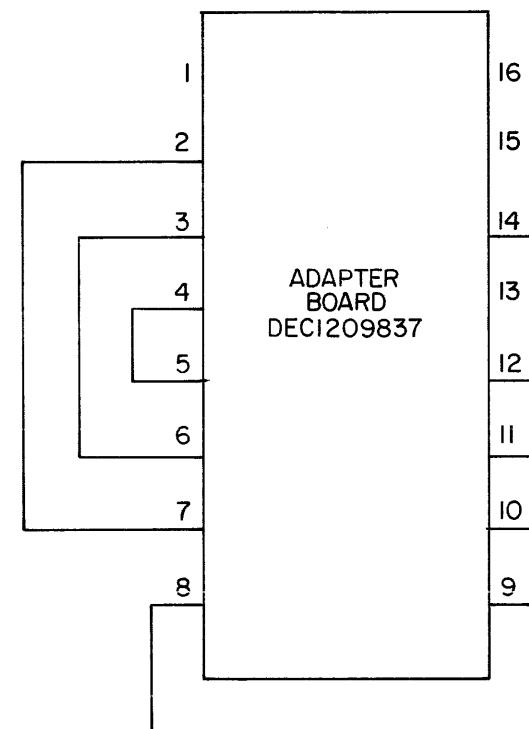
NOTES:

1. CUT OFF EXCESS LENGTH OF PRONGS BEFORE SOLDERING.



REVISIONS	CHANGE NO.	REV.
CHK		

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REVISIONS		
CHK	CHG NO.	REV.

DRN.	DATE
<i>Denke Seud</i>	5/18/70
CHK#	DATE
<i>Denke Seud</i>	5/18/70
ENG	DATE
<i>898</i>	5/26/70
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

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SIZE B CODE CS NUMBER 5408778-0-1
REV.
PRINTED CIRCUIT REV. A

4

5

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WIRE TABLE

FROM	TO	FROM	TO
P1-A	P2-VV	P1-Y	P2-X
P1-B	P2-UI	P1-Z	P2-W
P1-C	P2-TT	P1-AA	P2-V
P1-D	P2-SS	P1-BB	P2-U
P1-E	P2-RR	P1-CC	P2-T
P1-F	P2-PP	P1-DD	P2-S
P1-H	P2-NN	P1-EE	P2-R
P1-J	P2-MM	P1-FF	P2-P
P1-K	P2-LL	P1-HH	P2-N
P1-L	P2-KK	P1-JJ	P2-M
P1-M	P2-JJ	P1-EE	P2-L
P1-N	P2-HH	P1-LL	P2-K
P1-P	P2-FF	P1-MM	P2-J
P1-R	P2-EE	P1-NN	P2-H
P1-S	P2-DD	P1-PP	P2-F
P1-T	P2-CC	P1-RR	P2-E
P1-U	P2-BB	P1-SS	P2-D
P1-V	P2-AA	P1-TT	P2-C
P1-W	P2-ZZ	P1-UU	P2-B
P1-X	P2-VV	P1-VV	P2-A

LEGEND

NUMBER	DIM "X"	PRECUT LENGTH
BCØ8R-Ø1	1 FT	1FT 1.5IN ± 11
BCØ8R-Ø2	2 FT	2FT 1.5IN ± 11
BCØ8R-Ø3	3 FT	3FT 1.5IN ± 11
BCØ8R-Ø4	4 FT	4FT 1.5IN ± 11
BCØ8R-Ø6	6 FT	6FT 1.5IN ± 21
BCØ8R-Ø8	8 FT	8FT 1.5IN ± 21
BCØ8R-1Ø	1Ø FT	10FT 1.5IN ± 21
BCØ8R-12	12 FT	12 FT 1.5IN ± 31
BCØ8R-2Ø	2Ø FT	20FT 1.5IN ± 31
BCØ8R-25	25 FT	25FT 1.5IN ± 31
BCØ8R-3Ø	3Ø FT	37FT 1.5IN ± 61
BCØ8R-5Ø	5Ø FT	50FT 1.5IN ± 1 F
BCØ8R-6Ø	6Ø FT	67FT 1.5IN ± 1.2F
BCØ8R-75	75 FT	75FT 1.5IN ± 1.5F
BCØ8R-AØ	10Ø FT	100FT 1.5IN ± 2 FT
BCØ8R-A3	13Ø FT	130FT 1.5IN ± 2.4F
BCØ8R-A6	16Ø FT	160FT 1.5IN ± 3.2F

NOTES:

- IN
IN
IN
IN
IN
PIN
PIN
IN

 1. ASSEMBLE THIS CABLE PER PROCESS SPEC #7606485-0-0.
 2. CONNECTOR LEGEND IDENTIFICATION TO BE PLACED ON SHIELD SIDE OF CABLE IN THIS AREA AS SHOWN.
 3. INSPECTION & TEST STAMPS TO BE PLACED AT EACH END OF THE CABLE ASSEMBLY.

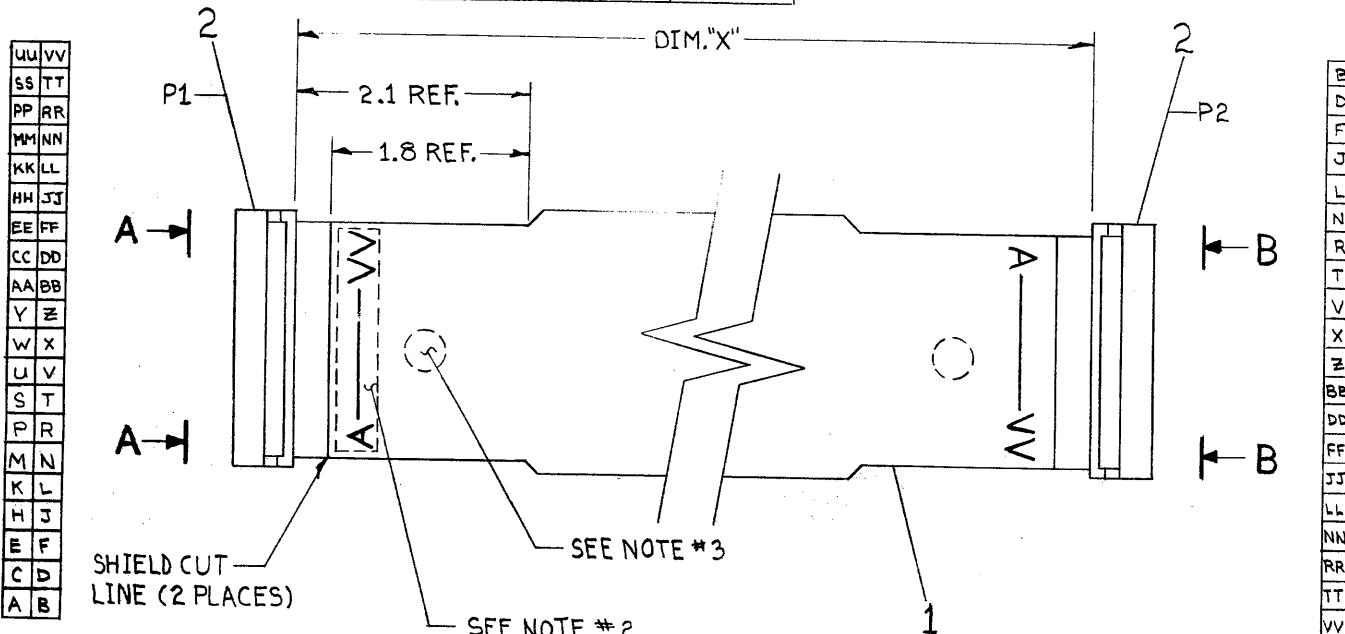
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VIEW A-A
CONN. LEGEND REF.

A

1

REVISIONS			
CHK	CHANGE NO.	REV	
P-1	BC08R-00004	J	
REVISED & REDRAWN			
<i>Handwritten signatures and initials</i>			
P. GABONER			
7-17-73			

DEC FOR
DRC 100

▲

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1

VIEW B-
CONN. LEGEND REF

